TECHNICAL INFORMATION INDEX...

GENERAL TYPEBAR SELECTRIC Typewriters
INPUT PROCESSING EQUIPMENT

This index of CEM subjects is organized by mechanism name and code. It can be used to locate current information on each product. This sheet is updated monthly (or whenever significant changes occur) to include new and revised CEMs. Use only the latest edition and discard prior editions.

CEMs no longer current and those now included in other publications are not listed. For additional information on any product, refer to the current product Parts Catalog, Service Manual, or Adjustment/Parts Manual.

May 17, 1978

INPUT PROCESSING EQUIPMENT

MODELS 211, 212, 213

CEM NO./DATE

AMPLIFIER (Mech. 05)
Volume – On/Off Potentiometer – Obsolete Model 212 (Early Level) . . . 216 – 7/75

MODELS 221/251 PBX

PBX CONTROL UNIT (Mech. 32)
Dial Dictation PBX Trunk Compatibility . . . . 130 – 5/72

MODEL 233 RMN

WALL & DESK STATION (Mech. 37)
60 Cycle Hum – 233 RMN . . . 221 – 9/75

MODEL 225/255 MR

CONTROL UNIT (Mech. 61)
MR Control Unit Electronics–Level 3 . . . . . 104 – 12/71

MODELS 171, 172/271, 272

AMPLIFIER (Mech. 75)
Drive And Word Recall Failures – Model 272 – Level 1 . . . 217 – 7/75
Electronic Board Failures–271 & 272 . . . . . 219 – 10/75
Power Transformer Wiring Error . . . 230 – 3/76
MICROPHONE & CORD RETRACT (Mech. 76)
Mike Board–Redesigned–Dictators–270 & 170 197 – 4/74
SOUNDHEAD CARRIER & SPACING (Mech. 73)
Backspace Pawl Assembly–Preadjusted–All Models 170-270 . . . 214 – 6/75
Drive Pawl Assembly–Redesigned– Models, 171, 172, 273, 275 . . . 213 – 7/75
Head Restore Follower – Breakage – Replacement Parts . . . 222 – 10/75
Recall Pawl Assembly–Eliminated–171, 172, 273, 275 . . . 196 – 7/75
Soundhead Level Change . . . 232 – 3/76
TELEPHONE RECORDING ATTACHMENT (Mech. 79)
Beep TRA – Cables Reversed – Model 271 . . . 215 – 6/75

MODEL 281/282

EJECT HOPPER (Mech. 86)
Eject Hopper Mechanism Binding . . . 211 – 4/75
Eject Hopper – Redesigned . . . 225 – 6/76
HEAD TRANSPORT (Mech. 85)
Disc Jams Or Disc Feed Failures . . . 249 – 2/77
MICROPHONE (Mech. 88)
Mike Control Detent – Redesigned . . . 227 – 3/76

6:5 CARTRIDGE SYSTEM

Accessory/Control Connection – 6:5 . . . 243 – 4/77
Adjustment Diagnostics Parts Manual–Revision– Models 281 & 282 . . . 246 – 7/77
Amplifier–Nonpluggable–Wiring . . . 261 – 6/77
Battery Leads – Shorting . . . 267 – 9/77
Bias Spring–Redesigned–Model 284 (6:5 Portable) . . . 236 – 6/76
Board A–Capacitor Reversed . . . 242 – 9/76
Connector Numbering – Incorrect . . . 252 – 3/77
Control Board–Failures . . . 255 – 7/77
Control Unit To Wall Cable–Redesigned . . . 226 – 12/75
Clock Board Improvement–287, 288 . . . 229 – 3/76
*Crosstalk – Model 284 . . . 244 – 11/77
Crosstalk . . . 256 – 4/77
Disc Eject–Redesigned–Model 284 . . . 245 – 12/76
Disc Jams . . . 260 – 6/77
Erase Bias Adjustment–284 (6:5 Portable) . . . 235 – 6/76
*Filter Capacitor . . . 270 – 2/78
Fuse B/M For TIS–New–Model 277 . . . 253 – 3/77
History Card–Location (6:5 Portable) . . . 238 – 6/76
*Lamp Assembly – Redesigned . . . 273 – 3/78
Load Hopper–Redesigned . . . 254 – 3/77
Null Adjusting Screw–Model 284 . . . 247 – 11/77
Part Number Additions To Parts Manual (6:5 Portable) . . . 234 – 12/76
*Pawl Spring – Stronger . . . 268 – 11/77
Playback Board Frequency Response Change – 6:5 Transcriber . . . 218 – 8/76
Radio Frequency Suppression (RFS) . . . 262 – 7/77
Radio Frequency Interference . . . 269 – 11/77
Reference Cell Voltage Check–6:5 Portable . . . 240 – 8/76
Scan Dial & Scan Gear–Redesigned–All 6:5s . . . 233 – 3/76
*Sound Heads – Intermittent Recording . . . 272 – 2/78
System Installation Procedure–280-287 . . . 228 – 3/76
Telephone Recording Attachment–New– Model 284 . . . 248 – 2/77
Test Disc–Missing Signal . . . 239 – 6/76
Tone Recognition–Low Battery Condition . . . 241 – 9/76
Tone/Massage System Coupler (USA Only)–New . 250 – 3/77
Tuning Problems – Pawl Spring . . . 268 – 11/77
Vibration Pad–New–Model 284 . . . 251 – 3/77
3-Wire Line Filter–B/M . . . 258 – 6/77
224-274 Battery & 284 Reference Cell – 6:5 Portable . . . 237 – 6/76
6:5 Cartridge System–Accessory/Control Connection . . . 223 – 10/75
6:5 External Primary Voltage Fuse . . . 224 – 11/75
*6:5 IPE Special Devices – New . . . 271 – 12/77
6:5 Microphone Control 8 (8X1)–New . . . 257 – 6/77
6:5 System Replacement MOSFET Board . . . 212 – 6/75

IPE GENERAL

IPE Parts Returns . . . 257 – 6/77
Machine Levels–Identification–270 Models . . . 220 – 9/75
Radio Frequency Interference . . . 269 – 11/77
Noise Interference Caused By MC II, MC/A Power Supply . . . 231 – 3/76

"SELECTRIC" TYPEWRITERS

BACKSPACE (Mech. 01)–ROTARY (Mech. 24)
Backspace Rotary–Wear–Redesigned Parts . . . 293 – 7/77
* Cable C/R Transport With Rotary B/S . . . 355 – 12/77
Carrier Return Shoe Arm–Redesigned . . . 316 – 3/77
Index Transfer Bellcrank Stop Lug–Wear . . . 307 – 12/75
Index Transfer Bellcrank, Switch Bracket & Backspace Index Interlock–Redesigned . . 341 – 5/77
* Rotary Backspace–Single Pitch–New . . . 335 – 12/77
CARRIER & ROCKER (Mech. 02)
* Bandwidth–Excessive . . . 223 – 2/78
Carrier Buffer–Field Install . . . 320 – 9/76
Print Quality–Platen Height Adjustment . . . 342 – 5/77
Tilt Ring Pivot Screw–Hex Head . . . 317 – 4/76
CORRECTING (Mech. 26)
Correcting Keylever & Button–Redesigned . . . 261 – 9/74
* Correcting Mechanism–New . . . 310 – 12/77
Correcting "Selectric"–Stalling During Corrections . . . 338 – 4/77
Correcting Tape–Insufficient Lift Motion . . . 315 – 12/76
Correcting Tape Feed–Redesigned . . . 324 – 10/76
Correcting Tape Guide–New . . . 322 – 9/76
Correcting Tape Take-Up Spool Interfering With Paper Feed . . . 344 – 5/77
Dead Key Cable – Breaking – Correcting "Selectric" II . . . 296 – 7/75
Lift Control Lever Post–Loose . . . 225 – 10/73
Lift-Off Tapes–Lift Off & Feed Failures . . . 285 – 4/75
* Load Lever Spring–Redesigned . . . 269 – 2/78
Paper Bail Arms–Redesigned . . . 323 – 3/77
* Paper Bail Arms – Universal . . . 359 – 12/77
COVERS & MOUNTING (Mech. 04) (Mech. 05)
Center Cover 7X1–Polyester–Wear . . . 286 – 4/75
Cover Bill Of Materials–Obsoleted–7X1 . . . 274 – 11/74
Cover Hinge & Bracket–Redesigned . . . 245 – 4/74
Latch–Top Cover . . . 347 – 6/77
Logos – "Selectric" Typewriter . . . 303 – 11/75
Platen Knobs & Vent Grills–Black . . . 287 – 4/75
Sound Insulation–"Selectric" Typewriters . . . 292 – 6/75
Top Cover Hinge–Redesigned . . . 339 – 4/77
* Vent Grills . . . 361 – 5/78
ESCAPEMENT (Mech. 06)
Escapement–New Adjustment Procedure . . . 334 – 2/77
* Escapement–Single Pitch–Skipping . . . 260 – 2/78
Escapement–Single Pitch–Skipping . . . 276 – 12/74
Torque Bar Backup Screw – Center – Modified "Selectric" II . . . 284 – 3/75
Torque Bar Backup Stud–Left Side . . . 243 – 3/74
FILM RIBBON (Mech. 14)
Print Quality–Correcting "Selectric" Typewriter . . . 304 – 9/76
GENERAL
"Selectric" Typewriter Service Hints . . . 311 – 9/76
* Customer Set-Up Program . . . 352 – 12/77
HALF-BACKSPACE (Mech. 07)
Escapement Rail–Dual Pitch . . . 332 – 1/77
Escapement Torque Backup Screw Nut– Left-Hand Discontinued . . . 346 – 5/77
Half-Backspace–Redesigned . . . 272 – 1/75
INDEXING (Mech. 20)
Double Index Mechanism . . . 314 – 4/76
* Indexing Conversion B/M 54 To 27 Tooth . . . 358 – 12/77
Indexing–New Adjustment Procedure . . . 295 – 9/77
Index Transfer Bellcrank, Switch Bracket & Backspace Interlock–Redesigned . . . 341 – 5/77
Index Pawl Assembly Stud – Field Replacement . . . 298 – 9/77
Lower Index Link C-Clip–Breakage . . . 318 – 4/76
Lower Index Link C-Clip–Redesigned . . . 333 – 1/77
* Stop, Eccentric Overthrow – Redesigned . . . 356 – 2/78
KEYBOARD (Mech. 21)
Cycle Clutch Pins–Wear . . . 206 – 11/73
Filter Shaft–World Trade Corp. 7X1 . . . 270 – 10/74
Keyboard Out Of Position . . . 266 – 8/74
Keyboard Touch – "Selectric" Typewriters . . 277 – 5/75
Keylever Pawls–Sticky . . . 312 – 3/76
MARGIN (Mech. 09)
Margin Set Lever – Redesigned . . . 254 – 1/75
MARGINS (Mech. 10)
Margin Rack Toggle Spring–Removed . . . 343 – 5/77
Margin Pointer – Model 8XX . . . 328 – 10/76
MOTOR & DRIVE (Mech. 11)
Idle Noise – "Selectric" Typewriters . . . 268 – 7/75
OPERATIONAL CONTROL (Mech. 25)
Backspace Cam Follower–Single Pitch– Redesigned . . . 302 – 11/75
Carrier Return Jerky Or Sluggish . . . 308 – 6/76
Carrier Return & Spacebar Cam Follower Removal Procedures . . . 301 – 11/75
* Oil Wick – Return Cam Follower Roller – New . . . 357 – 12/77
Operational Cam Follower Roller – Wear . . . 319 – 6/76
* Operational Clutch Wheel – Wearing . . . 345 – 12/77
Operational Latch Wheel–Wearing . . . 343 – 5/77
Operational Shaft Support – New . . . 289 – 1/76
Retainer Clip (Interposer Restoring Bail) . . . 351 – 9/77
* Torque Limiter Arbor – Defective . . . 362 – 5/78
Torque Limiter Spring Clamp – Redesigned . . 350 – 8/77
PAPER FEED (Mech. 22)
Carbon Paper Marking . . . 313 – 3/76
* Feed Rollers – Marking Original . . . 353 – 2/78
Paper Bail Arm Springs – Stronger . . . 279 – 5/75
Paper Bail Arm Screws – Loose . . . 297 – 7/75
Platen Height Adjustment . . . 305 – 11/75
Universal Cardholder Bracket . . . 327 – 10/76
PINFEED PLATEN (Mech. 49)
Pinfeed Platen–Erratic Linespacing . . . 309 – 1/76
Pinfeed Platen Bushing – 7X1 With Polyester Covers . . . 280 – 3/75
Pinwheel Assemblies–High Lift Cams . . . 288 – 11/75
PLATEN (Mech. 12)
* Index Pawl – Misalignment . . . 354 – 12/77
Page End Indicator – New Bias Spring . . . 278 – 3/75
Platens–Models 7XX & 8XX . . . 331 – 1/77
Platen Knob–New–Handicapped Operators . . 282 – 3/75
Platen Knobs & Vent Grills–Black–7XX . . . 287 – 9/77
Platen Knobs & Vent Grills–Black–8XX . . . 326 – 10/76
Rotate Tapes – Incorrect Labels . . . 290 – 6/75
SELECTION (Mech. 23)
Rotate Adjustment–7XX, 8XX . . . 336 – 3/77
Rotate Bellcrank Mounting Stud–Redesigned . 257 – 6/74
Rotate Mechanism – Redesigned . . . 340 – 6/77
Selection–Balance Arm Adjustment . . . 291 – 9/77
SELECTIVE RIBBON (Mech. 15)
Correcting Mechanism–New . . . 310 – 3/76
* Feed Gear Adjustment – Selective Ribbon . . . 300 – 12/77
Lift Control Lever Post–Loose . . . 225 – 10/73
Lift Control Lever Stud–Wear . . . 294 – 9/77
Ribbon Lift & Tracking Failures – "Selectric" II . . . 275 – 1/75
Selective Ribbon Spread Plate–Redesigned . . . 299 – 12/75
* Stencil Lever – Final Stop – Field Fix . . . 259 – 2/78
* Wobbler Spring – Removed . . . 360 – 2/78
SHIFT (Mech. 16)
Shift Adjusting Screw . . . 349 – 8/77
Shift Cam Redesigned – "Selectric" Typewriter . . . 273 – 1/75
Shift Detent Spring – Plastic Cam . . . 235 – 1/74
SOUND REDUCTION (Mech. 30)
On/Off Button Jammed–Sound Pack Frame . . 325 – 9/76
Steel Membrane Support – Changed . . . 330 – 12/76
TAB (Mech. 18)
"Selectric" II Typewriter 8X3 – 9 Pitch . . . 321 – 9/76
Single Pitch Tab Lever Spacer – Breakage . . . 306 – 4/76
TAB (DUAL PITCH) (Mech. 19)
Tab Lever Spacing – Dual Pitch – Binding . . . 337 – 6/77
TYPE ELEMENTS (Mech. 02)
Type Element – Labanotation . . . 236 – 1/74
Type Element – New – Athabascan . . . 281 – 3/75
Type Element – Broken Teeth . . . 329 – 12/76
Type Element–Orator, Language Arts–New . . 346 – 6/77

TYPEBAR TYPEWRITERS

BACKSPACE (Mech. 01)
Backspace – Model D "Executive" . . . 152 – 8/75
CARRIAGE & RAILS (Mech. 02)
Platen Detent Release–Link & Cam Asm.– Redesigned . . . 160 – 12/76

*Asterisk Indicates New Additions Or Revised Items

IBM INTERNAL USE ONLY

IBM Office Products Division
Customer Engineering

"IBM," "Executive," "IBM EXECUTARY" and "Selectric" are registered trademarks of the International Business Machines Corp.

DECIMAL TAB (Mech. 30)
Keylevers – Binding – Model D
Decimal Tab . . . . . 141 – 1/75
GENERAL
Complete Sets Of Ground Type–Obsolete . . . 162 – 5/77
MOTOR & DRIVE (Mech. 11)
Motor Leads Worn–Capacitor Type–GE . . . . 157 – 7/76
SAFETY
Safety And Exposure . . . . . 161 – 12/76
TAB (Mech. 18)
Tab Lever – Assembled Wrong . . . . . 158 – 8/76

GENERAL

*AC Capacitor Safety . . . . . 81 – 2/78
Aligning Tool . . . . . 63 – 2/76
Ball Peen Hammer – P/N 4050 . . . . . 76 – 7/77
Bristol Wrench–With Handle . . . . . 67 – 12/76
Call Reporting–All OPD Products . . . . . 5 – 6/77
CE Parts Inventory . . . . . 31 & 45 – 4/74
CE Parts Packets/Packaged B/M . . . . . 54 – 3/75
CE Travel By Commercial Airlines . . . . . 80 – 11/77
CEM Categories . . . . . 59 – 1/76
Cleaning Cloth–Disposable . . . . . 71 – 4/77
Cleaner, General Purpose . . . . . 78 – 11/77
*Contact Lenses . . . . . 83 – 4/78
Correctable Film Ribbon – High Yield . . . . . 77 – 8/77
Copier Warranty – Service Codes . . . . . 22 – 7/71
Cover Cleaning . . . . . 19 – 3/71
Customer Safety . . . . . 24 – 10/71
Discontinuance Of Certain Typebar Options, Paints & Finishes . . . . . 33 – 3/75
Discontinuance Of Model 731 And 735 Input/Output Writer . . . . . 57 – 11/75
Do Not Operate Card . . . . . 50 – 9/75
Drop Cloth Location . . . . . 41 – 8/73
*Dynamic Half Cycle Tool – Improved . . . . . 85 – 5/78
ET Discontinuances Announced April 1, 1975 . . . 55 – 4/75
Field Modification Of OPD Equipment . . . . . 16 – 2/71
Flashlight, Pocket . . . . . 61 – 2/76
Function Chart Symbols–All Products . . . . . 26 – 9/73
*General Purpose Cleaner . . . . . 78 – 11/77
Grip Ring Pliers – Replaceable Tips . . . . . 35 – 5/76
Ground Monitor Defective . . . . . 49 – 9/74
IBM Cleaning Fluid – Leaking Containers . . . . . 39 – 4/73
IBM Cleaning Fluid–Used On Aluminum Surface . 75 – 7/77
IBM Volt-Ohmmeter – Polarity Switch . . . . . 23 – 7/71
IBM VOM – Test Probes . . . . . 4 – 4/70
Installation Tool – C-Clip . . . . . 69 – 4/77
Insulating Varnish – Glyptol . . . . . 79 – 11/77
Key Wrench B/M . . . . . 64 – 5/76
*Left Hand Thread – Identification . . . . . 84 – 5/78
Locktite Super Bonder Adhesive, P/N 628969 . . . 52 – 1/75
Machine Electrical Check . . . . . 27 – 1/72
Machine Performance Record Forms . . . . . 40 – 8/73
Machine Serial Numbers . . . . . 73 – 4/77
Modified "Selectric" Typewriter Motor For Government Agencies . . . . . 28 – 7/77
Number 29 Drill Available . . . . . 72 – 4/77
Nut Drivers – 3/16 & 1/8 . . . . . 32 – 6/72
OPD Customer Engineering – Required Action Guidelines . . . . . 58 – 7/77
Pageboy Radio Batteries – Oversized . . . . . 48 – 7/74
Part No./Price List Identification . . . . . 66 – 11/76
Parts Returnable For Credit . . . . . 21 – 12/73
Pinfeed Platen – Pin Wheel Lubrication . . . . . 30 – 2/72
*Pour Spout . . . . . 82 – 4/78
Product Labels With UL Mark . . . . . 43 – 12/73
Product Codes – DE Systems . . . . . 18 – 9/73
Product Quality Reporting . . . . . 51 – 1/75
Polyester Paint Usage – S/N Range . . . . . 29 – 2/72
Power Cleaner Linecord – Safety Check . . . . . 34 – 2/74
Power Cleaner Output Nozzle Breakage . . . . . 37 – 1/73
Power Cleaners – Pump Head Screws . . . . . 42 – 9/73
Relay Contact Cleaning . . . . . 13 – 1/71
Removal Of Foreign Objects – "Selectric" Typewriters . . . . . 38 – 8/73
Refilling Etched Keybuttons . . . . . 2 & 11 – 11/70
Reporting Machine Problems . . . . . 36 – 1/73
Replacement Links – All Products . . . . . 47 – 11/74
Safety Precautions – Servicing OPD Products . . . . . 74 – 5/77
Screws–Thread Forming . . . . . 20 – 9/73
Serial Number Changes . . . . . 8 – 9/70
Serial Number Plate–"Selectric"–Plant Installed . 70 – 4/77
Serial Number Verification – Non-Baseline Products . . . . . 46 – 4/74
Service Practice . . . . . 25 – 10/71
SMS And SLT Card Identification . . . . . 7 – 6/76
Soldering Tips . . . . . 65 – 6/76
Soldering Iron Handles – Possible Improper Material . . . . . 56 – 8/75
Taking Serial Numbers On Tape . . . . . 6 – 9/70
Third Party Resale/Lease Of OP Manufactured Products . . . . . 62 – 6/77
Tilt-up Position . . . . . 68 – 1/77
Triplett Meter – New Level . . . . . 53 – 8/75
Triplett Multimeters – 310C . . . . . 60 – 2/76
Volt-Ohmmeter Reference Manual . . . . . 44 – 12/73